## <u>Claims</u>

1	1.	An isolated polynucleotide that encodes a Bacillus thuringiensis toxin
2	comprising an	amino acid sequence selected from the group consisting of SEQ ID NO:2,
3	SEQ ID NO:4	, SEQ ID NO:6, SEQ ID NO:8, and insecticidal fragments thereof.

- 2. The isolated polynucleotide according to claim 1 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:2.
  - 3. The isolated polynucleotide according to claim 1 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:4.
  - 4. The isolated polynucleotide according to claim 1 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:6.
  - 5. The isolated polynucleotide according to claim 1 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:8.
  - 6. The isolated polynucleotide according to claim 1 wherein said polynucleotide comprises a fragment of the nucleotide sequence of SEQ ID NO:1 sufficient to encode an insecticidal toxin.
- 7. The isolated polynucleotide according to claim 1 wherein said polynucleotide comprises a fragment of the nucleotide sequence of SEQ ID NO:3 sufficient to encode an insecticidal toxin.

- 8. The isolated polynucleotide according to claim 1 wherein said polynucleotide comprises a fragment of the nucleotide sequence of SEQ ID NO:5 sufficient to encode an insecticidal toxin.
  - 9. The isolated polynucleotide according to claim 1 wherein said polynucleotide comprises a fragment of the nucleotide sequence of SEQ ID NO:7 sufficient to encode an insecticidal toxin.
  - 10. A recombinant microbial or plant cell comprising an isolated polynucleotide sequence comprising an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, and insecticidal fragments thereof.
  - 11. The recombinant microbial or plant cell according to claim 10 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:2.
  - 12. The recombinant microbial or plant cell according to claim 10 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:4.
- 13. The recombinant microbial or plant cell according to claim 10 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:6.
- 14. The recombinant microbial or plant cell according to claim 10 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:8.
- 15. The recombinant microbial or plant cell according to claim 10 wherein said polynucleotide comprises a fragment of the nucleotide sequence of SEQ ID NO:1 sufficient to encode an insecticidal toxin.

- 16. The recombinant microbial or plant cell according to claim 10 wherein said polynucleotide comprises a fragment of the nucleotide sequence of SEQ ID NO:3 sufficient to encode an insecticidal toxin.
  - 17. The recombinant microbial or plant cell according to claim 10 wherein said polynucleotide comprises a fragment of the nucleotide sequence of SEQ ID NO:5 sufficient to encode an insecticidal toxin.
  - 18. The recombinant microbial or plant cell according to claim 10 wherein said polynucleotide comprises a fragment of the nucleotide sequence of SEQ ID NO:7 sufficient to encode an insecticidal toxin.
  - 19. A method for controlling lepidopteran insects which comprises administering to said insects or to the environment of said insects a microbial or plant host transformed to express a *Bacillus thuringiensis* toxin comprising an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, and SEQ ID NO:8, and insecticidal fragments thereof.
  - 20. The method according to claim 19 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:2.
  - 21. The method according to claim 19 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:4.
- 22. The method according to claim 19 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:6.

1 23. The method according to claim 19 wherein said toxin comprises an insecticidal fragment of SEQ ID NO:8.